



2020 SPECIALTY REVIEW IN NEONATOLOGY

The Premier Board Review Course in Neonatal-Perinatal Medicine

DAY 1 – MONDAY, FEBRUARY 17, 2020

Introduction to the Course

Time	Topic	Speaker
8:00 am – 8:10 am	Welcome and Overview of Course	David L. Weisoly, DO

Maternal-Fetal Medicine

Time	Topic	Speaker
8:10 am – 9:00 am	The Placenta: Structure, Function and Maternal Disorders Affecting the Fetus	David Burchfield, MD
9:00 am – 10:00 am	Maternal-Fetal Medicine High Yield Problem-Based Review: Part 1	Blake Porter, MD
10:00 am – 10:30 am	Break	
10:30 am – 11:30 am	Maternal-Fetal Medicine High Yield Problem-Based Review: Part 2	Blake Porter, MD
11:30 am – 12:00 pm	Board Exam Preparation AND Audience Response Quiz Session	David L. Weisoly, DO

General Care of the Neonate / Pharmacology/Fluids and Electrolytes / Birth Transition/Derm

Time	Topic	Speaker
12:00 pm – 12:30 pm	Neonatal Pharmacology Rapid Review: Audience Response Quiz Session	David L. Weisoly, DO
12:30 pm – 1:30 pm	Lunch	
1:30 pm – 2:15 pm	Neonatal Thermoregulation and Heat Loss: Problem-Based Review and Tutorial	Fernando Moya, MD
2:15 pm – 3:00 pm	<i>The Dharmapuri Vidyasagar Lectureship</i> Fetal and Neonatal Growth / Aberrant Growth States: Problem-Based Review	David L. Weisoly, DO
3:00 pm – 4:00 pm	Water Balance, Electrolytes and Acid Base: Problem-Based Review and Tutorial	Fernando Moya, MD
4:00 pm – 4:30 pm	Break	
4:30 pm – 5:30 pm	Classic Neonatology Problems and Associations – An Interactive High Yield Review for Neonatologists	Matthew Saxonhouse, MD David L. Weisoly, DO
5:30 pm – 6:00 pm	Dermatology Photo Quiz: Rashes and Skin Disorders of the Neonate	Matthew Saxonhouse, MD David L. Weisoly, DO



DAY 2 – TUESDAY, FEBRUARY 18, 2020

Neonatal Gastroenterology and Nutrition

Time	Topic	Speaker
8:00 am – 10:15 am	<i>The Richard Rivas Memorial Award Lecture*</i> Problem-Based Gastroenterology Review – an Audience-Participatory Tutorial	James Moore, MD, PhD Camilia Martin, MD*
10:15 am – 10:45 am	Break	
10:45 am – 12:15 pm	All About Neonatal Nutrition – an Audience-Participatory Tutorial	James Moore, MD, PhD David L. Weisoly, DO
12:15 pm – 1:15 pm	Lunch	

Neonatal Hematology / Bilirubin / Neonatal Nephrology

Time	Topic	Speaker
1:15 pm – 2:45 pm	All About Hematology: <ul style="list-style-type: none"> Review of Hematopoiesis, Hemoglobin and Red Cell Disorders Review of Platelets and Coagulation 	Matthew Saxonhouse, MD
2:45 pm – 3:15 pm	Break	
3:15 pm – 4:30 pm	All About Hematology continued: <ul style="list-style-type: none"> Pathophysiology, Prevention and Management of Bilirubin, Jaundice and Kernicterus Audience Response Quiz on Blood Smears	Matthew Saxonhouse, MD
4:30 pm – 5:15 pm	Neonatal Nephrology: Renal Development and Function, Renal Failure	Ravi Mangal Patel, MD
5:15 pm – 6:00 pm	Neonatal Nephrology: AKI and Nephrology Problems/Calculations	Ravi Mangal Patel, MD
6:00 pm	Adjourn	
7:00 pm – 9:00 pm	SR Battle of the Boards – 4th Edition!! An Evening of Quiz Questions & Camaraderie!	Dara Brodsky, MD Camilia Martin, MD James Moore, MD, PhD Matthew Saxonhouse, MD David L. Weisoly, DO



DAY 3 – WEDNESDAY, FEBRUARY 19, 2020

Neonatal Respiratory System

Time	Topic	Speaker
8:00 am – 9:00 am	Birth Transition and Extrauterine Adaptation/Neonatal Resuscitation	Lucky Jain, MD
9:00 am – 9:45 am	Lung Development and What can go Wrong	Lucky Jain, MD
9:45 am – 10:15 am	Break and Exhibits	
10:15 am – 11:00 am	RDS and Surfactant Proteins/Surface Tension and Balloon Problems	Lucky Jain, MD
11:00 am – 12:00 pm	Respiratory Mechanics: Respiratory Physiology, Pulmonary Function Testing	David Burchfield, MD
12:00 pm – 1:00 pm	Lunch and Exhibits	
1:00 pm – 2:00 pm	Pulmonary Hypertension: Hypoxic Respiratory Failure / MAS / PPHN and Intrinsic Pulmonary Disorders or Anomalies Resulting in PPHN	David Burchfield, MD
2:00 pm – 2:45 pm	Interactive Case-Based Review of O ₂ and CO ₂ Physiology, Alveolar Gas Equation, Bohr Effect with Audience Response	Martin Keszler, MD
2:45 pm – 3:30 pm	Physiology of Mechanical Ventilation: Do You Understand the Modes, Loops and Curves? A Case-Based Review with Audience Response	Martin Keszler, MD
3:30 pm – 4:00 pm	Break and Exhibits	
4:00 pm – 5:30 pm	Pulmonary Problem Solving Workshop / Tutorial I (Audience Response Quiz Session)	Lucky Jain, MD Martin Keszler, MD
5:30 pm – 6:30 pm	Pulmonary Problem Solving Workshop / Tutorial II	Lucky Jain, MD Martin Keszler, MD
6:30 pm – 7:30 pm	Welcome Reception	



DAY 4 – THURSDAY, FEBRUARY 20, 2020

Neonatal Cardiovascular System

Time	Topic	Speaker
8:00 am – 8:35 am	Cardiovascular Physiology of the Fetus	Dara Brodsky, MD
8:35 am – 9:15 am	Cardiac Hemodynamics in the Newborn	Dara Brodsky, MD
9:15 am – 9:45 am	Review of the Pathophysiology and Pharmacotherapy of Neonatal Shock	Dara Brodsky, MD
9:45 am – 10:15 am	Break and Exhibits	
10:15 am – 10:45 am	Cardiac Physiology	Laurie Armsby, MD
10:45 am – 12:00 pm	The Physiology of Congenital Heart Disease and PDA – Part I – Case-Based Examples	Laurie Armsby, MD
12:00 pm – 1:30pm	Lunch Break and Exhibits	
1:30 pm – 2:15 pm	The Physiology of Congenital Heart Disease – Part II – Case-Based Examples	Laurie Armsby, MD
2:15 pm – 3:00 pm	ECG, Dysrhythmias and Electrocardiography: A Case-Based Review	Laurie Armsby, MD

Core Scholarly Activities / Biostatistics / CV Physiology Tutorial

Time	Topic	Speaker
3:00 pm – 4:30 pm	Review of Core Scholarly Activities and Biostatistics for the Neonatologist	John Zupancic, MD
4:30 pm – 5:00 pm	Break and Exhibits	
5:00 pm – 7:15 pm	A New Cardiovascular Physiology Problem Solving Tutorial	Dara Brodsky, MD Laurie Armsby, MD



DAY 5 – FRIDAY, FEBRUARY 21, 2020

Neonatal Radiology

Time	Topic	Speaker
8:00 am – 9:30 am	Neonatal Radiology: Review of the Basics and Interactive Audience Response Challenge	Jon Williams, MD

Genetics, Central Nervous System Part II, and Neonatal Neurology

Time	Topic	Speaker
9:30 am – 10:30 am	Genetics Principles and Inborn Errors of Metabolism	Michael Gambello, MD
10:30 am – 11:00 am	Break and Exhibits	
11:00 am – 12:00 pm	Chromosome, Mendelian and Non-Mendelian Disorders: High Yield Rapid Review	Michael Gambello, MD
12:00 pm – 1:00 pm	Lunch and Exhibits	
1:00 pm – 2:15 pm	Neonatal Neurology: Review of Neonatal Neurologic Disorders, Seizures, Cerebral Palsy and Neurodevelopmental Outcomes of CP	Pedro Mancias, MD
2:15 pm – 3:00 pm	Pathophysiology of Cerebral Blood Flow, Intracranial Pressure, and IVH	Michael Weiss, MD
3:00 pm – 3:45 pm	White Matter Injury, HIE, Intracranial and Extracranial Hemorrhage	Michael Weiss, MD
3:45 pm – 4:00 pm	Break	

Neonatal Infectious Diseases

Time	Topic	Speaker
4:00 pm – 5:30 pm	Neonatal Bugs: Bacterial, Viral and Fungal Infections – An Interactive Review with Audience Response	Robert Lawrence, MD
5:30 pm – 6:45 pm	I.D. Clinical Dilemmas and Photographic Tutorial: Audience Response Quiz Session	Robert Lawrence, MD



DAY 6 – SATURDAY, FEBRUARY 22, 2020

Neonatal Endocrinology and Metabolism

Time	Topic	Speaker
8:00 am – 8:45 am	Neonatal Thyroid and Pituitary Disorders	Tandy Aye, MD
8:45 am – 9:30 am	Adrenal Gland Disorders / Steroid Pathways / CAH Review	Tandy Aye, MD
9:30 am – 10:15 am	Calcium and Phosphorus Metabolism and Disorders	Tandy Aye, MD
10:15 am – 10:45 am	Break	
10:45 am – 11:30 am	Pathophysiology of Glucose Metabolism and Homeostasis	Tandy Aye, MD

Core Scholarly Activities / Biostatistics for the Neonatologist: Part II

Time	Topic	Speaker
11:30 am – 12:15 pm	Lunch	
12:15 pm – 2:00 pm	Audience Response Quiz: “Do You Really Understand the Stats?”	Reese Clark, MD

Neonatal Immunology

Time	Topic	Speaker
2:00 pm – 2:45 pm	High Yield Clinical Immunology for the Neonatologist	James Wynn, MD
2:45 pm	Closing Remarks Adjournment of Course CE / Course Evaluations	
The link for Specialty Review Pre-Test, Post-Test and SR Essentials will be emailed to attendees in a protected non-printable format. These links will be available until May 1, 2020 ONLY		